

ABSTRACT OF THE DISCLOSURE

A method and apparatus are described for supporting the full MESI (Modified, Exclusive, Shared or Invalid) protocol in a distributed shared memory environment implementing a snoop based architecture. A requesting node submits a single read request to a snoop based architecture controller switch. The switch recognizes that a responding node other than the requesting node and the home node for the desired data has a copy of the data in an ambiguous state. The switch resolves this ambiguous state by snooping the remote node. After resolving the ambiguous state, the read request transaction is completed.

005232T-4C925260